ABSTRACT OF THE DISCLOSURE

A method for dry etching a polysilicon film to form gate electrodes in a CMOS LSI includes the steps of etching a first portion of the polysilicon film having a higher impurity concentration by using CF-based etching gas, such as CF₄, CHF₃ and CH₂O₂, etching a second portion of the polysilicon film having a lower impurity concentration by using etching gas such as Cl₂/O₂, HBr/O₂, Cl₂/HBr/O₂ and Cl₂/HBr/CF₄/O₂, and etching residues generated in the above etching steps. The CF-based etching gas allows the polysilicon film doped with n-type and p-type impurities to be etched at a uniform etch rate.

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